

SHEET S2 OF S2

TOTAL SHEET SHEETS NO. F.A.P. SECTION COUNTY 333 2002-101N LAKE 75 45 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

GENERAL NOTES

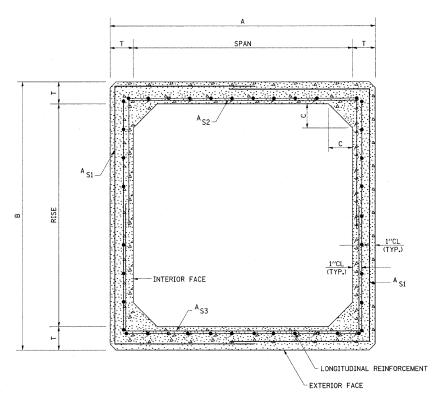
PRECAST CONCRETE BOX CULVERT AND PRECAST CONCRETE BOX CULVERT END SECTIONS

- 1. THIS WORK CONSISTS OF FURNISHING AND INSTALLING PRECAST BOX CULVERTS AND BOX CULVERT END SECTIONS AS SHOWN ON THE PLANS AND SPECIFIED HEREIN.
- 1. IF THE EARTH COVER IS 2 FEET OR MORE, THE PRECAST CONCRETE BOX CULVERT SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C789 (AASHTO M-259) EXCEPT THAT THE GRADATION OF THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF ARTICLES 1003.02 AND 1004.2 OF THE STANDARD SPECIFICATION.
- IF THE EARTH COVER IS LESS THAN 2 FEET, THE PRECAST BARREL 1. SECTIONS SHALL CONFORM TO THE REQUIRE OF ASTM C850 AND THE END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C789, WITH THE EXCEPTION OF GRADATION, THE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ARTICLES 1003.02 OF THE STANDARD SPECIFICATIONS.
- CONSTRUCTION OF PRECAST BOX CULVERTS AND BOX CULVERT 1. END SECTIONS SHALL CONFORM TO ALL, APPLICABLE REQUIREMENTS OF ARTICLE 540 OF THE STANDARD SPECIFICATION.
- THE EXCAVATION AND BACKFILLING FOR PRECAST CONCRETE BOX

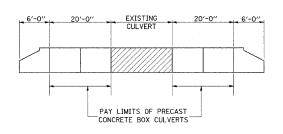
 1. CULVERT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF
 SECTION 502 OF THE STANDARD SPECIFICATIONS EXCEPT A LAYER
 OF POROUS GRANULAR BACKFILL AT LEAST 6 INCHES IN
 THICKNESS, SHALL BE PLACE BELOW THE ELEVATION OF THE
 BOTTOM OF THE BOX. THE POROUS GRANULAR BACKFILL SHALL BE
 PLACED TO EXTEND AT LEAST 2 FEET EACH SIDE OF THE BOX, THE
 PRECAST CONCRETE BOX CULVERT SHALL BE LAID I N
 ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF ARTICLE
 542.04 (d) OF THE STANDARD SPECIFICATIONS. 542.04 (d) OF THE STANDARD SPECIFICATIONS.
- WHEN THE MASTIC JOINT SEALER OPTION IS USED TO FILL THE
 1. JOINTS ON PRECAST CONCRETE BOX CULVERTS, FILTER FABRIC
 WITH A MINIMUM WIDTH OF 2 FOOT SHALL BE PLACED OVER THE
 JOINT ON THE SIDES AND TOP. THE MASTIC JOINT SEALER SHALL BE
 SPREAD A MINIMUM OF 1 FEET WIDE ON EACH SIDE OF THE TOP
 AND SIDE JOINTS BEFORE PLACING THE FILTER FABRIC. THE FILTER
 FABRIC SHALL CONFORM TO ARTICLE 1080,03 OF THE STANDARD
 SPECIFICATION, THE COST WILL BE INCLUDED IN THE PRECAST
 CONCRETE BOX CLIVERT. CONCRETE BOX CULVERT.
- REINFORCEMENT FOR THE PRECAST BOX CULVERT, AND THE BOX
 1. CULVERT END SECTIONS AND CONNECTION DETAILS TO THE EXISTING
 BOX CULVERT SHALL BE DESIGNED AND SHALL BE SIGNED BY AN ILLINOIS
 REGISTERED STRUCTURAL ENGINEER, SHOP PLANS SHOWING DETAILS
 FOR THE PRECAST CONCRETE BOX CULVERT SECTIONS AND THE END
 SECTIONS AND CONNECTIONS FOR THE EXTENSIONS SHALL BE PREPARED
 AND SIGNED BY AN ILLINOIS REGISTERED STRUCTURAL ENGINEER AND
 SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.
- THE PRECAST CONCRETE BOX CULVERT EXCLUDING END SECTIONS

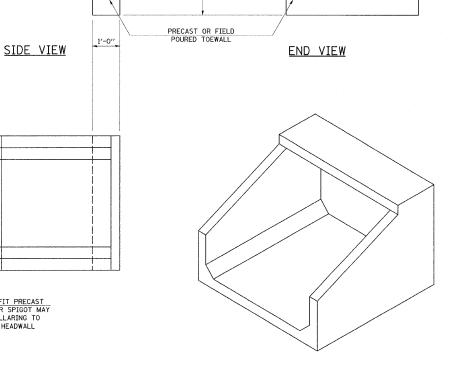
 1. WILL BE MEASURED ON A FOOT BASIS. THE PRECAST CONCRETE
 BOX CULVERT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE
 PER FOOT FOR PRECAST CONCRETE BOX CULVERT, OF THE SIZE
 SPECIFIED, AND INCLUDES POROUS GRANULAR BACKFILL
 EXCAVATION EXCEPT EXCAVATION OF ROCK AND /OR UNSTABLE
 OR UNSUITABLE MATERIAL BELOW BEDDING GRADE.
- THE PRECAST CONCRETE BOX CULVERT END SECTION WILL BE

 1. MEASURE ON AN EACH BASIS. THE END SECTIONS WILL BE PAID
 FOR AT THE CONTRACT UNIT PRICE EACH FOR BOX CULVERT END
 SECTIONS, OF THE CULVERT NUMBEAR SPECIFIED, AND INCLUDE
 EXCAVATION, TOEWALL AND COLLARS.



CROSS SECTION





* 2:1 MAXIMUM SLOPE

<u>PLAN</u>

END CONNECTION TO FIT PRECAST
BOX CULVERT BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL

6'-0"

ISOMETRIC VIEW

DIMENSIONS (FOR ASTM C789)

SPAN X RISE (FEET)	T (INCHES)	A (FTIN.)	B (FTIN.)	C (INCHES)	E (FTIN.)	F (FTIN.)	G (FTIN.)	H (FTIN.)	SLOPE (Y:X)
2X2	4	2-8	2-8	0	3-0	3-0	1-0	1-0	3:1

* ALL DIMENSIONS SHOULD BE VERIFIED WITH SUPPLIER

DATE NAME SCALE NAME

SCALE: NONE DATE: 12/22/2008 DRAWN BY CHECKED BY

ILLINOIS DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERS

AND END SECTIONS